

Amendment dated February 3, 2006
First Preliminary Amendment

AMENDMENTS TO THE SPECIFICATION

Please amend the title as follows:

SYSTEM HAVING DLC CONTACT SURFACES, METHOD OF LUBRICATING THE
SYSTEM, AND LUBRICANT FOR THE SYSTEM

Please replace the paragraph beginning on page 16, line 1, with the following rewritten paragraph:

-- The hydrocarb~~yl~~ group is a C2-C30 hydrocarbon group, and may be a hydrocarbon group, such as a straight or branched C2-C30, preferably C5-C18, more preferably C6-C13 alkyl group; a C6-C18, preferably C10-C15 ~~alkyl~~ aryl group; or an alkylaryl group. Among these, straight or branched C6-C13 alkyl groups are particularly preferred. --

Please replace the paragraph beginning on page 16, line 22, with the following rewritten paragraph:

-- The oxygen-containing organic compound may be any organic compound as long as it has oxygen in its molecule, and may be a compound composed of carbon, ~~oxygen~~ hydrogen, and oxygen, or a compound having, in addition to these elements, halogen, such as fluorine or chlorine, nitrogen, sulfur, phosphorus, boron, metal, or the like, in its molecule. --

Please replace the paragraph beginning on page 17, line 22, with the following rewritten paragraph:

-- The above-mentioned derivatives may typically be a compound obtained by reacting the compound composed of carbon, ~~oxygen~~ hydrogen, and oxygen, with, for example, a nitrogen-

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containing compound, a phosphorus-containing compound, sulfur, a sulfur containing compound, a boron-containing compound, halogen, a halogen-containing compound, metal, an inorganic or organic metal-containing compound, or alkylene oxide. --

Please replace the paragraph beginning on page 18, line 25, with the following rewritten paragraph:

-- Examples of the monohydric alkyl alcohols may include methanol; ethanol; propanol, such as 1-propanol and 2-propanol; butanol, such as 1-butanol, 2-butanol, 2-methyl-1-propanol, and 2-methyl-2-propanol; pentanol, such as 1-pentanol, 2-pentanol, 3-pentanol, 2-methyl-1-butanol, 3-methyl-1-butanol, 3-methyl-2-butanol, 2-methyl-2-butanol, and 2,2-dimethyl-1-propanol; hexanol, such as 1-hexanol, 2-hexanol, 3-hexanol, 2-methyl-1-pentanol, 2-methyl-2-pentanol, 2-methyl-3-pentanol, 3-methyl-1-pentanol, 3-methyl-2-pentanol, 3-methyl-3-pentanol, 4-methyl-1-pentanol, 4-methyl-1-pentanol, 4-methyl-2-pentanol, 2,3-dimethyl-2-butanol, 3,3-dimethyl-1-butanol, 3,3-dimethyl-2-butanol, 2-ethyl-1-butanol, and 2,2-dimethylbutanol; heptanol, such as 1-heptanol, 2-heptanol, 3-heptanol, 2-methyl-1-hexanol, 2-methyl-1-hexanol, 2-methyl-2-hexanol, 2-methyl-3-hexanol, 5-methyl-2-hexanol, 3-ethyl-3-pentanol, 2,2-dimethyl-3-pentanol, 2,3-dimethyl-3-pentanol, 2,4-dimethyl-3-pentanol, 4,4-dimethyl-2-pentanol, 3-methyl-1-hexanol, 4-methyl-1-hexanol, 5-methyl-1-hexanol, and 2-ethylpentanol; octanol, such as 1-octanol, 2-octanol, 3-octanol, 4-methyl-3-heptanol, 6-methyl-2-heptanol, 2-ethyl-1-hexanol, 2-propyl-1-pentanol, 2,4,4-trimethyl-1-pentanol, 3,5-dimethyl-1-hexanol, 2-methyl-1-heptanol, and 2,2-dimethyl-1-hexanol; nonanol, such as 1-nonanol, 2-nonanol, 3,5,5-trimethyl-1-hexanol, 2,6-dimethyl-4-heptanol, 3-ethyl-2,2-dimethyl-3-pentanol, and 5-methyloctanol; decanol, such as 1-decanol, 2-decanol, 4-decanol, 3,7-dimethyl-1-octanol, and 2,4,6-trimethylheptanol; undecanol; dodecanol; tridecanol; tetradecanol; pentadecanol; hexadecanol; ~~heptadecanol; hexadecanol;~~ heptadecanol; octadecanol, such as stearyl alcohol; nonadecanol; eicosanol; heneicosanol; tricosanol; and tetracosanol. --

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Please replace the paragraph beginning on page 31, line 9, with the following rewritten paragraph:

-- Examples of the saturated or unsaturated aliphatic ethers may include C1-C40 saturated or unsaturated aliphatic ethers, such as dimethyl ether, diethyl ether, di-n-propyl ether, diisopropyl ether, dibutyl ether, diisobutyl ether, di-n-amyl ether, ~~dihexyl ether~~, dihexyl ether, diheptyl ether, dioctyl ether, dinonyl ether, didecyl ether, diundecyl ether, didodecyl ether, ditridecyl ether, ditetradecyl ether, dipentadecyl ether, dihexadecyl ether, diheptadecyl ether, dioctadecyl ether, dinonadecyl ether, diicosyl ether, methylethyl ether, methyl-n-propyl ether, methylisopropyl ether, methylisobutyl ether, methyl-tert-butyl ether, methyl-n-amyl ether, methylisoamyl ether, ethyl-n-propyl ether, ethylisopropyl ether, ~~ethylisobutyl ether~~, ethylisobutyl ether, ethyl-tert-butyl ether, ethyl-n-amyl ether, ethylisoamyl ether, divinyl ether, diallyl ether, methylvinyl ether, methylallyl ether, ethylvinyl ether, and ethylallyl ether. These saturated or unsaturated aliphatic group may either be straight or branched, and the position of an unsaturated bond may be arbitrary. --

Please replace the paragraph beginning on page 35, line 22, with the following rewritten paragraph:

-- The carbonates are oxygen-containing organic compounds having one or more carbonate bonds, and may be carbonates having a saturated or unsaturated C1-C40 aliphatic group, a carbocyclic ring, a carbocyclic ring having a saturated or unsaturated aliphatic group, or a saturated or unsaturated aliphatic group having a carbocyclic ring, such as dimethyl carbonate, diethyl carbonate, di-n-propyl carbonate, ~~diisopropyl carbonate~~, diisopropyl carbonate, di-n-butyl carbonate, diisobutyl carbonate, di-tert-butyl carbonate, dipentyl carbonate, dihexyl carbonate, diheptyl carbonate, dioctyl carbonate, dinonyl carbonate, didecyl carbonate, diundecyl carbonate, didodecyl carbonate, ditridecyl carbonate, ditetradecyl carbonate, dipentadecyl carbonate, dihexadecyl carbonate, diheptadecyl carbonate, dioctadecyl carbonate, or diphenyl carbonate. These compounds may have a straight or branched, saturated or unsaturated aliphatic group, the

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position of an unsaturated bond is arbitrary, and the position and number of substitution are arbitrary. --

Please replace the paragraph beginning on page 42, line 16, with the following rewritten paragraph:

-- Among these nitrogen compounds, aliphatic amines having straight or branched C10-C20 alkyl or alkenyl groups, ~~straight or branched alkyl amines, and (alkyl or alkenyl group may be~~ straight or branched alkenylamines chain), such as decylamine, dodecylamine, tridecylamine, heptadecylamine, octadecylamine, oleylamine, and strearylamine, are preferred. --

Please replace the paragraph beginning on page 45, line 1, with the following rewritten paragraph:

-- The alkylene oxide addition products may be compounds obtained by addition reaction of alkylene oxide to a nitrogen atom in the various amine compounds mentioned above. Examples of the alkylene oxide addition products may include N,N-dipolyoxyalkylene-N-alkyl- or alkenylamine obtained by addition reaction of alkylene oxide to a primary monoamine having a C6-C28 ~~alkyl~~ alkyl or alkenyl group, more specifically, N,N-dipolyoxyethylene-N-oleylamine. --